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(4) Approval of major alternatives to recordkeeping and reporting under

63.10(f), as defined in 63.90, and as required in this subpart.

[68 FR 37356, June 23, 2003]

§§ 63.1197-63.1199 [Reserved]

Table 1 to Subpart DDD of Part 63—Applicability of General Provisions (40 CFR Part 63, Subpart A) to Subpart DDD of Part 63

General provisions citation	Requirement	Applies to subpart DDD?	Explanation
63.1(a)(1)–(a)(4)	General Applicability	Yes.	
63.1(a)(5)		No	[Reserved].
63.1(a)(6)–(a)(8)		Yes.	[[losorvou].
63.1(a)(9)		No	[Reserved].
		Yes.	[neserveu].
63.1(a)(10)–(a)(14)	Initial Applicability Determined		
63.1(b)	Initial Applicability Determination	Yes.	
63.1(c)(1)	Applicability After Standard Established.	Yes.	
63.1(c)(2)		Yes	Some plants may be area sources.
63.1(c)(3)		No	[Reserved].
63.1(c)(4)–(c)(5)		Yes.	[
63.1(d)		No	[Reserved].
	Applicability of Daywit Drawn	Yes.	[Neserveu].
63.1(e)	Applicability of Permit Program		
33.2	Definitions	Yes	Additional definitions in §63.1196.
63.3	Units and Abbreviations	Yes.	
63.4(a)(1)–(a)(3)	Prohibited Activities	Yes.	
63.4(a)(4)		No	[Reserved].
63.4(a)(5)		Yes.	
63.4(b)–(c)	Circumvention/Severability	Yes.	
63.5(a)	Construction/Reconstruction Ap-	Yes.	
` '	plicability.	Yes.	
63.5(b)(1)	Existing, New, Reconstructed Sources Requirements.		
63.5(b)(2)		No	[Reserved].
63.5(b)(3)–(b)(6)		Yes.	
63.5(c)		No	[Reserved].
63.5(d)	Application for Approval of Construction/Reconstruction.	Yes.	
63.5(e)	Approval of Construction/Reconstruction.	Yes.	
63.5(f)	Approval of Construction/Reconstruction Based on State Review.	Yes.	
63.6(a)	Compliance with Standards and Maintenance Applicability.	Yes.	
63.6(b)(1)–(b)(5)	New and Reconstructed Sources Dates.	Yes.	
63.6(b)(6)		No	[Reserved].
63.6(b)(7)		Yes.	[1.1000.100].
63.6(c)(1)	Existing Sources Dates	Yes	§63.1180 specifies compliance
. , ,			dates.
63.6(c)(2)		Yes.	
63.6(c)(3)–(c)(4)		No	[Reserved].
63.6(c)(5)		Yes.	
63.6(d)		No	[Reserved].
63.6(e)(1)–(e)(2)	Operation & Maintenance Requirements.	Yes	§ 63.1187 specifies additional requirements.
63.6(e)(3)	Startup, Shutdown, and Malfunction Plan.	Yes.	quirements.
63.6(f)	Compliance with Emission Standards	Yes.	
63.6(q)	Alternative Standard	Yes.	
			Subport DDD door not include
63.6(h)	Compliance with Opacity/VE Standards.	No	Subpart DDD does not include VE/opacity standards.
63.6(i)(1)–(i)(14)	Extension of Compliance	Yes	§ 63.1180 specifies date.
63.6(i)(15)	Extension of compliance	No	[Reserved].
63.6(i)(16)		Yes.	[[10001 VBu].
	1		
63.6(j) 63.7(a)	Exemption from Compliance Performance Test Requirements	Yes. Yes.	

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General provisions citation	Requirement	Applies to subpart DDD?	Explanation
63.7(b)	Notification	Yes.	
63.7(c)	Quality Assurance/Test Plan	Yes.	
63.7(d)	Testing Facilities	Yes.	
63.7(e)	Conduct of Tests	Yes	§ 63.1188 specifies additional requirements.
63.7(f)	Alternative Test Method	Yes.	
63.7(g)	Data Analysis	Yes.	
33.7(h)	Waiver of Tests	Yes.	
63.8(a)(1)	Monitoring Requirements Applica-	Yes.	
63.8(a)(2)	bility.	No	Subpart DDD does not require CMS performance specifica-
20.0(-)(0)		NI-	tions.
33.8(a)(3)		No	[Reserved].
3.8(a)(4)		Yes.	
3.8(b)	Conduct of Monitoring	Yes.	
63.8(c)(1)–(c)(3)	CMS Operation/Maintenance	Yes.	
			Cubacat DDD dags and accusing
63.8(c)(4)–(c)(8)		No	Subpart DDD does not require COMS or CMS performance
53.8(d)	Quality Control	No	specifications. Subpart DDD does not require a
. ,	-	No	CMS quality control program. Subpart DDD does not require
63.8(e)	CMS Performance Evaluation		CMS performance evaluations.
63.8(f)(1)–(f)(5)	Alternative Monitoring Method Alternative to RATA Test	Yes. No	Subpart DDD does not require
			CEMS.
63.8(g)(1)63.8(g)(2)	Data Reduction	Yes. No	Subpart DDD does not require
63.8(g)(3)–(g)(5)		Yes.	COMS or CEMS.
63.9(a)	Notification Requirements Applicability.	Yes.	
63.9(b)	Initial Notifications	Yes.	
63.9(c)	Request for Compliance Extension.	Yes.	
63.9(d)	New Source Notification for Special Compliance Requirements.	Yes.	
63.9(e)	Notification of Performance Test Notification of VE/Opacity Test	Yes. No	Subpart DDD does not include
63.9(g)	Additional CMS Notifications	No	VE/opacity standards. Subpart DDD does not require
			CMS performance evaluation, COMS, or CEMS.
63.9(h)(1)–(h)(3)	Notification of Compliance Status	Yes.	
63.9(h)(4)		No	[Reserved].
63.9(h)(5)–(h)(6)		Yes.	
		Yes.	
33.9(i)	Adjustment of Deadlines		
63.9(j) 63.10(a)	Change in Previous Information Recordkeeping/Reporting-Applica-	Yes. Yes.	
63.10(b)	bility. General Recordkeeping Require-	Yes	§ 63.1192 includes additional re-
63.10(c)(1)	ments. Additional CMS Recordkeeping	Yes.	quirements.
63.10(c)(2)–(c)(4)		No	[Reserved].
			[Ficocived].
63.10(c)(5)		Yes.	
63.10(c)(6)		No	Subpart DDD does not require CMS performance specifications.
63.10(c)(7)–(c)(8)		Yes.	
63.10(c)(9)		No	[Reserved].
63.10(c) (10)–(c)(13)		Yes.	
63.10(c)(14)		No	Subpart DDD does not require a CMS quality control program.
22 10(a)(15)		Yes.	ome quanty control program.
63.10(c)(15)63.10(d)(1)	General Reporting Requirements	Yes	Additional requirements in
	1		§ 63.1193.
. , , ,	D (T : - ::		
63.10(d)(2) 63.10(d)(3)	Performance Test Results Opacity or VE Observations	Yes. No	Subpart DDD does not include VE/opacity standards.

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General provisions citation	Requirement	Applies to subpart DDD?	Explanation
63.10(e)(1)–(e)(2)	Additional CMS Reports	No	Subpart DDD does not require CEMS or CMS performance evaluations.
63.10(e)(3)	Excess Emissions/CMS Performance Reports.	Yes.	
63.10(e)(4)	COMS Data Reports	No	Subpart DDD does not require COMS.
63.10(f)	Recordkeeping/Reporting Waiver	Yes.	
63.11(a)	Control Device Requirements Applicability.	Yes.	
63.11(b)	Flares	No	Flares not applicable.
63.12	State Authority and Delegations	Yes.	
63.13	Addresses	Yes.	
63.14	Incorporation by Reference	Yes.	
63.15	Information Availability/Confidentiality.	Yes.	

APPENDIX A TO SUBPART DDD OF PART 63—FREE FORMALDEHYDE ANALYSIS OF INSULATION RESINS BY THE HYDROXYLAMINE HYDROCHLORIDE METHOD

1. Scope

The method in this appendix was specifically developed for water-soluble phenolic resins that have a relatively high free-formaldehyde (FF) content such as insulation resins. It may also be suitable for other phenolic resins, especially those with a high FF content.

2. Principle

2.1 a. The basis for this method is the titration of the hydrochloric acid that is liberated when hydroxylamine hydrochloride reacts with formaldehyde to form formaldoxine:

 $\text{HCHO} + \text{NH2OH:HCl} \rightarrow \text{CH2:NOH} + \text{H2O} + \text{HCl}$

- b. Free formaldehyde in phenolic resins is present monomeric formaldehyde, polyoxymethylene hemiformals, hemiformals, and polyoxymethylene glycols. Monomeric formaldehyde and hemiformals react rapidly with hydroxylamine hydrochloride, but the polymeric forms of formaldehyde must hydrolyze to the monomeric state before they can react. The greater the concentration of free formaldehyde in a resin, the more of that formaldehyde will be in the polymeric form. The hydrolysis of these polymers is catalyzed by hydrogen
- 2.2 The resin sample being analyzed must contain enough free formaldehyde so that the initial reaction with hydroxylamine hydrochloride will produce sufficient hydrogen ions to catalyze the depolymerization of the polymeric formaldehyde within the time limits of the test method. The sample should contain approximately 0.3 grams (g) free formaldehyde to ensure complete reaction within 5 minutes.

3. Apparatus

- 3.1 Balance, readable to 0.01 g or better.
- $3.2\,$ pH meter, standardized to pH 4.0 with pH 4.0 buffer and pH 7 with pH 7.0 buffer.
- $3.3\,\,$ 50-mL burette for 1.0 N sodium hydroxide.
- 3.4 Magnetic stirrer and stir bars.
- 3.5 250-mL beaker.
- 3.6 50-mL graduated cylinder.
- 3.7 100-mL graduated cylinder.
- 3.8 Timer.

4. Reagents

- $4.1\,$ Standardized 1.0 N sodium hydroxide solution.
- 4.2 Hydroxylamine hydrochloride solution, 100 grams per liter, pH adjusted to 4.00.
- $4.3\,$ Hydrochloric acid solution, 1.0 N and 0.1 N.
 - 4.4 Sodium hydroxide solution, 0.1 N.
- $4.5\;$ 50/50 v/v mixture of distilled water and methyl alcohol.

5. Procedure

- 5.1 Determine the sample size as follows:
- a. If the expected FF is greater than 2 percent, go to Part A in 5.1.c to determine sample size.
- b. If the expected FF is less than 2 percent, go to Part B in 5.1.d to determine sample size.
 - c. Part A: Expected FF ≥2 percent.

Grams resin = 60/expected percent FF

I. The following table shows example levels:

Expected percent free formaldehyde	Sample size, grams
2	30.0
5	12.0
8	7.5
10	6.0
12	5.0
15	4.0